

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 1017991162  
Source: IFW  
Date Processed by STIC: 12-27-04

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 12/27/2004

PATENT APPLICATION: US/10/799,162

TIME: 12:24:49

Input Set : A:\Sequence Listing 60117-39.txt

Output Set: N:\CRF4\12272004\J799162.raw

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4 <110> APPLICANT: Winkler, David
5     Latham, John
6     Skonier, John
7     Shpektor, Diana
8     Hayes, Trenton
9     Geoghegan, James
11 <120> TITLE OF INVENTION: Ligands for TGF-Beta Binding Proteins and Uses Thereof
13 <130> FILE REFERENCE: 60117-42
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/799,162
16 <141> CURRENT FILING DATE: 2004-03-12
18 <150> PRIOR APPLICATION NUMBER: PCT/US2004/007565
19 <151> PRIOR FILING DATE: 2004-03-12
21 <150> PRIOR APPLICATION NUMBER: 60/455,253
22 <151> PRIOR FILING DATE: 2003-03-14
24 <160> NUMBER OF SEQ ID NOS: 20
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 2301
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
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36 ggtggcaggc gttcaagaat gatgccacgg aaatcatccc cgagctcgga gagtaccccg 180
37 agcctccacc ggagctggag aacaacaaga ccatgaaccg ggcggagaac ggagggcggc 240
38 ctccccacca cccctttgag accaaagacg tgtccgagta cagctgccgc gagctgcact 300
39 tcacccgcta cgtgaccgat gggccgtgcc gcagcgccaa gccggtcacc gagctggtgt 360
40 gctccggcca gtgcggcccg gcgcgcctgc tgcccaacgc catcgccgc ggcaagtgg 420
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43 gcaagtgcaa gcgcctcacc cgcttcacaa accagtcgga gctcaaggac ttcgggaccg 600
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45 accaggccga gctggagaac gcctactaga gcccgccccg gccctcccc accggcgggc 720
46 gccccggccc tgaacccgcg cccacattt ctgtcctctg cgcgtggttt gattgtttat 780
47 atttcattgt aaatgcctgc aaccaggggc agggggctga gacctccag gccctgagga 840
48 atcccgggcg ccggcaaggc cccctcagc ccgcagctg aggggtccca cggggcaggg 900
49 gagggaattg agagtcacag aactgagcc acgcagcccc gcctctgggg ccgcctacct 960
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51 agggagcggg gtgggagtg gaaagtccag ggactggtta agaaagttg ataagattcc 1080
52 cccttgccac tcgctgccc tcaaaaagcc tgaggcgtgc ccagagcaca agactggggg 1140
53 caactgtaga tgtggtttct agtctggct ctgccactaa cttgctgtgt aaccttgaac 1200
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55 taggatctcg aggagactat tggcatatga ttccaaggac tccagtgcct tttgaatggg 1320

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56 cagaggtgag agagagagag agaaagagag agaatgaatg cagttgcatt gattcagtgc 1380
57 caaggtcact tccagaattc agagttgtga tgctctcttc tgacagccaa agatgaaaaa 1440
58 caaacagaaa aaaaaaagta aagagtctat ttatggctga catatttacg gctgacaaac 1500
59 tcctggaaga agctatgctg cttcccagcc tggcttcccc ggatgtttgg ctacctccac 1560
60 ccctccatct caaagaaata acatcatcca ttggggtaga aaaggagagg gtccgagggt 1620
61 ggtgggaggg atagaaatca catccgcccc aacttcccaa agagcagcat ccctcccccg 1680
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63 ccttgaggcc ccgaggggagc agccatcaca aactcacaga ccagcacatc ccttttgaga 1800
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65 tcttacatgt gatggcatat cttacactaa aagaatatta ttgggggaaa aactacaagt 1920
66 gctgtacata tgctgagaaa ctgcagagca taatagctgc caccacaaaa tctttttgaa 1980
67 aatcatttcc agacaacctc ttactttctg tgtagttttt aattgttaaa aaaaaaaagt 2040
68 tttaaacaga agcacatgac atatgaaagc ctgcaggact ggtcgttttt ttggcaattc 2100
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74 &lt;210&gt; SEQ ID NO: 2

75 &lt;211&gt; LENGTH: 213

76 &lt;212&gt; TYPE: PRT

77 &lt;213&gt; ORGANISM: Homo sapiens

79 &lt;400&gt; SEQUENCE: 2

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82 Ala Phe Arg Val Val Glu Gly Gln Gly Trp Gln Ala Phe Lys Asn Asp
83 20 25 30
84 Ala Thr Glu Ile Ile Pro Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro
85 35 40 45
86 Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg
87 50 55 60
88 Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys
89 65 70 75 80
90 Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser
91 85 90 95
92 Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala
93 100 105 110
94 Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser
95 115 120 125
96 Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val
97 130 135 140
98 Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg
99 145 150 155 160
100 Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln
101 165 170 175
102 Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly
103 180 185 190
104 Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu
105 195 200 205
106 Leu Glu Asn Ala Tyr

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Input Set : A:\Sequence Listing 60117-39.txt

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111 <211> LENGTH: 2301
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 3
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117 tggccctgtg tctcgtctgc ctgctggtac acacagcctt ccgtgtagtg gagggctagg 120
118 ggtggcaggc gttcaagaat gatgccacgg aaatcatccc cgagctcgga gagtaccccg 180
119 agcctccacc ggagctggag aacaacaaga ccatgaaccg ggcgagaaac ggagggcggc 240
120 ctccccacca cccctttgag accaaagacg tgtccgagta cagctgccgc gagctgact 300
121 tcacccgcta cgtgaccgat gggcctgtgc gcagcgccaa gccggtcacc gagctggtgt 360
122 gctccggcca gtgcggcccg gcgcgcctgc tgcccaacgc catcgccgc ggcaagtgt 420
123 ggcgacctag tgggcccgcac ttccgctgca tccccgaccg ctaccgcgcg cagcgcgtgc 480
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125 gcaagtgcaa gcgcctcacc cgcttcacac accagtccga gctcaaggac ttcgggaccg 600
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127 accaggccga gctggagaac gcctactaga gcccgccgc gccctcccc accggcgggc 720
128 gccccggccc tgaacccgcg cccacattt ctgtcctctg cgcgtggtt gattgtttat 780
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133 agggagcggg gtgggagtg gaaagtccag ggactggtta agaaagttg ataagattcc 1080
134 cccttgccac tcgtgcca tcagaaagcc tgaggcgtgc ccagagcaca agactggggg 1140
135 caactgtaga tgtggtttct agtcctggct ctgccactaa cttgctgtgt aacctgaac 1200
136 tacacaattc tccttcggga cctcaatttc cactttgtaa aatgaggtg gaggtgggaa 1260
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139 caaggtcact tccagaattc agagtgtgta tgctctcttc tgacagccaa agatgaaaaa 1440
140 caaacagaaa aaaaaaagta aagagtctat ttatggctga catatttacg gctgacaaac 1500
141 tcctggaaga agctatgctg ctcccagcc tggctcccc ggatgttttg ctacctccac 1560
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149 aatcatttcc agacaacctc ttactttctg tgtagttttt aattgttaaa aaaaaaagt 2040
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156 <210> SEQ ID NO: 4
157 <211> LENGTH: 23
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens

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161 &lt;400&gt; SEQUENCE: 4

162 Met Gln Leu Pro Leu Ala Leu Cys Leu Val Cys Leu Leu Val His Thr

163 1 5 10 15

164 Ala Phe Arg Val Val Glu Gly

165 20

168 &lt;210&gt; SEQ ID NO: 5

169 &lt;211&gt; LENGTH: 2301

170 &lt;212&gt; TYPE: DNA

171 &lt;213&gt; ORGANISM: Homo sapiens

173 &lt;400&gt; SEQUENCE: 5

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175 tggcctgtg tctcatctgc ctgctggtac acacagcctt ccgtgtagtg gagggccagg 120
176 ggtggcaggc gttcaagaat gatgccacgg aaatcatccg cgagctcgga gagtaccccg 180
177 agcctccacc ggagctggag aacaacaaga ccatgaaccg ggcggagAAC ggagggcggc 240
178 ctccccacca cccctttgag accaaagacg tgtccgagta cagctgccgc gagctgcaact 300
179 tcacccgcta cgtgaccgat gggcctgtgc gcagcgccaa gccggtcacc gagctggtgt 360
180 gctccggcca gtgcggcccg gcgcgcctgc tgcccaacgc catcgccgcg ggcaagtgg 420
181 ggcgacctag tgggcccgcg ttccgctgca tccccgaccg ctaccgcgcg cagcgcgtgc 480
182 agctgctgtg tcccgggtgt gaggcgcgcg gcgcgcgcaa ggtgcgcctg gtggcctcgt 540
183 gcaagtgcaa gcgcctcacc cgcttcacaa accagtcgga gctcaaggac ttcgggaccg 600
184 aggcgcctcg gccgcagaag ggcgggaagc cgcggcccg cgcccgagc gccaaagcca 660
185 accaggccga gctggagaac gcctactaga gcccgcgcg gccctcccc accggcgggc 720
186 gcccgggccc tgaacccgcg cccacattt ctgtcctctg cgcgtggttt gattgtttat 780
187 atttcattgt aaatgcctgc aaccaggggc agggggctga gacctccag gccctgagga 840
188 atcccgggcg ccggcaaggc cccctcagc ccgccagctg aggggtccca cggggcaggg 900
189 gaggaattg agagtcacag aactgagcc acgcagcccc gcctctgggg ccgcctacct 960
190 ttgctggtcc cacttcagag gaggcagaaa tggaagcatt ttcaccgcc tgggggttta 1020
191 agggagcggg gtgggagtgg gaaagtccag ggactggtta agaaagtgg ataagattcc 1080
192 cccttgcaac tcgctgccc tcaaaaagcc tgaggcgtgc ccagagcaca agactggggg 1140
193 caactgtaga tgtggtttct agtcctggct ctgccactaa cttgctgtgt aaccttgaa 1200
194 tacacaattc tccttcggga cctcaatttc cactttgtaa aatgagggtg gaggtgggaa 1260
195 taggatctcg aggagactat tggcatatga ttccaaggac tccagtgcct tttgaatggg 1320
196 cagaggtgag agagagagag agaaagagag agaataatg cagttgcatt gattcagtgc 1380
197 caaggtcact tccagaattc agagttgtga tgctctcttc tgacagccaa agatgaaaaa 1440
198 caaacagaaa aaaaaaagta aagagtctat ttatggctga catatttac gctgacaaa 1500
199 tcctggaaga agctatgctg ctcccagcc tggcttccc ggatgtttg ctacctccac 1560
200 ccctccatct caaagaaata acatcatcca ttggggtaga aaaggagagg gtccgagggt 1620
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205 tcttacatgt gatggcatat cttacactaa aagaatatta ttgggggaaa aactacaagt 1920
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207 aatcatttcc agacaacctc ttactttctg ttagttttt aattgttaaa aaaaaaaagt 2040
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209 ttccacgtgg gacttgtcca caagaatgaa agtagtggt tttaaagagt taagttacat 2160
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212 acaatgaatc atgaccgaaa g 2301

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Input Set : A:\Sequence Listing 60117-39.txt

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214 &lt;210&gt; SEQ ID NO: 6

215 &lt;211&gt; LENGTH: 213

216 &lt;212&gt; TYPE: PRT

217 &lt;213&gt; ORGANISM: Homo sapiens

219 &lt;400&gt; SEQUENCE: 6

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222 Ala Phe Arg Val Val Glu Gly Gln Gly Trp Gln Ala Phe Lys Asn Asp
223           20           25           30
224 Ala Thr Glu Ile Ile Arg Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro
225           35           40           45
226 Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg
227           50           55           60
228 Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys
229   65           70           75           80
230 Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser
231           85           90           95
232 Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala
233           100          105          110
234 Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser
235           115          120          125
236 Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val
237           130          135          140
238 Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg
239  145          150          155          160
240 Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln
241           165          170          175
242 Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly
243           180          185          190
244 Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu
245           195          200          205
246 Leu Glu Asn Ala Tyr
247           210

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250 &lt;210&gt; SEQ ID NO: 7

251 &lt;211&gt; LENGTH: 2301

252 &lt;212&gt; TYPE: DNA

253 &lt;213&gt; ORGANISM: Homo sapiens

255 &lt;400&gt; SEQUENCE: 7

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257 tggccctgtg tctcgtctgc ctgctggtac acacagcctt ccgtgtagtg gagggccagg 120
258 ggtggcaggc gttcaagaat gatgccacgg aaatcatccg cgagctcgga gactaccccg 180
259 agcctccacc ggagctggag aacaacaaga ccatgaaccg ggcggagaac ggagggcggc 240
260 ctccccacca cccctttgag accaaagacg tgtccgagta cagctgccgc gagctgcact 300
261 tcaccgcgta cgtgaccgat gggccgtgcc gcagcgccaa gccggtcacc gagctggtgt 360
262 gctccggcca gtgcggcccg gcgcgcctgc tgcccaacgc catcgccgcg ggcaagtggg 420
263 ggcgacctag tgggcccgcg ttccgctgca tccccgaccg ctaccgcgcg cagcgcgctg 480
264 agctgctgtg tcccggtggt gaggcgcgcg gcgcgcgcaa ggtgcgcctg gtggcctcgt 540
265 gcaagtgcaa gcgcctcacc cgtttccaca accagtcgga gctcaaggac ttcgggaccg 600
266 aggcgcgtcg gccgcagaag ggccggaagc cgcggccccc cgcccggagc gccaaagcca 660

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**VERIFICATION SUMMARY**

DATE: 12/27/2004

PATENT APPLICATION: US/10/799,162

TIME: 12:24:50

Input Set : A:\Sequence Listing 60117-39.txt

Output Set: N:\CRF4\12272004\J799162.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number